

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Application of

Liang-Sheng Liao, et al

ORGANIC  
ELECTROLUMINESCENT  
DEVICES HAVING A STABILITY  
ENHANCING LAYER

Serial No. To be assigned

Filed Herewith

Group Art Unit:

Examiner:

Express Mail Label No. EV293510300US

Date

11/14/03

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA. 22313-1450

Sir:

**INFORMATION DISCLOSURE STATEMENT FOR CONSIDERATION**  
**BY THE OFFICE UNDER 37 C.F.R. 1.97-1.99**

Enclosed herewith are patents and/or publications for consideration by the Patent and Trademark Office in regard to the invention claimed in the above-described application. In compliance with §1.56, such documents are listed in the enclosed Form PTO-1449.

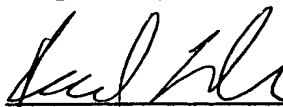
Applicants request that the Patent and Trademark Office make of record the above-identified documents. A full text copy of each document is attached, except for copies of U.S. patents and U.S. patent application publications. For documents not in English, an English translation or an equivalent English language patent or publication may be attached. Where a translation is not available, a concise explanation of the relevance of each document not in English is included either here or in the specification.

This Information Disclosure Statement (hereinafter "Statement") is submitted according to the following selected paragraph:

- I. ☒ This Statement is being filed under §1.97(b) within three months of the filing date of the application (other than a CPA), or before the mailing of a first Office action on the merits or before the mailing of a first Office action after the filing of a request for continued examination.
- II. ☐ This Statement is being filed under §1.97(c), with fee, **prior** to the mailing date of any of a final action, a notice of allowance or an action that otherwise closes prosecution in the application. Please charge the fee required by §1.17(p) to Eastman Kodak Company Deposit Order Account Number 05-0225. A duplicate copy of this Certification is enclosed.

- III. ☐ This Statement is being filed under §1.97(c), with a certification under, §1.97(e) **prior** to the mailing date of any of a final action, a notice of allowance or an action that otherwise closes prosecution in the application. The undersigned hereby states that (check one):
- ☐ each item of information contained in this Statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Statement.
- ☐ no item of information in this Statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing this certification under §1.97(e) after making reasonable inquiry, no item of information contained in this Statement was known to any individual designated in §1.56(c) more than three months prior to the filing of this Statement.
- IV. ☐ This Statement is being filed under §1.97(d), with fee and certification under §1.97(e), on or after the mailing date of either a final action, a notice of allowance (but prior to payment of the issue fee) or an action that otherwise closes prosecution in the application. Please charge the fee required by §1.17(p) to Eastman Kodak Company Deposit Order Account No. 05-0225. A duplicate copy of this Certification is enclosed. The undersigned hereby states that (check one):
- ☐ each item of information in this Statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Statement.
- ☐ no item of information in this Statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing this certification under §1.97(e) after making reasonable inquiry, no item of information contained in this Statement was known to any individual designated in §1.56(c) more than three months prior to the filing of this Statement.

Respectfully submitted,



Attorney for Applicants  
Registration No. 22,363

Raymond L. Owens/das  
Telephone: 585-477-4653  
Facsimile: 585-477-4646  
Enclosures

<b>FORM PTO-1449</b> US DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	Atty. Docket No. <b>87103RLO</b> Customer No. 01333	Serial No.
If AFTER the later date of the first Office Action or 3 months from filing, use only with Rule 97(E) Certificate or Fee	Applicant: <b>Liang-Sheng Liao, et al</b>	
<b>LIST OF ART CITED BY APPLICANT</b> <i>(Use several sheets if necessary)</i>	Filing Date	Group

U.S. PATENT DOCUMENTS						
Examiner Initial*	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	2003/0077480	4/24/03	Hosokawa et al			
	4769292	9/6/88	Tang et al			
	6013384	1/11/00	Kido et al			
	6509109	1/21/03	Nakamura et al			

FOREIGN PATENT DOCUMENTS						
Examiner Initial*	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES   NO

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)	
	Tang et al, Organic electroluminescent diodes, Appl. Phys. Lett. 51 (12) Sept. 21, 1987, pgs. 913-915
	Adachi et al, Electroluminescence in Organic Films with Three-Layer Structure, Japanese Journal of Applied Physics Vol 27, No. 2, February 1988, pp. L269-L271
	Tang et al, Electroluminescence of doped organic thin films, J. Appl. Phys. 65 (9), May 1, 1989, pgs 3610-3616
	Van Slyke et al, Organic electroluminescent devices with improved stability, Appl. Phys. Lett. 69 (15) October 7, 1996, pgs. 2160-2162
	Hamada et al, Influence of the Emission Site on the Running Durability of Organic Electroluminescent Devices, Jpn. J. Appl. Phys. Vol. 34 (1995) pp. L824-L826
	Shi et al, Doped organic electroluminescent devices with improved stability, Appl. Phys. Lett. 70 (13) March 31, 1997, pgs 1665-1667
	Choong et al, Organic light-emitting diodes with a bipolar transport layer, Applied Physics Letters, Vol. 75, No. 2, July 12, 1999, pgs. 172-174
	Aziz et al, Organic light-emitting devices with enhanced operational stability at elevated temperatures, Applied Physics Letters, Vol. 81, No. 2, July 8, 2002, pgs. 370-372
	Shi et al, Anthracene derivatives for stable blue-emitting organic electroluminescence devices, Applied Physics Letters, Vol. 80 No. 17, April 29, 2002, pgs. 3201-3203
	Kido, Bright organic electroluminescent devices having a metal-doped electron-injecting layer, Applied Physics Letters Vol. 73, No. 20 November 16, 1998, pgs. 2866-2868
	Hasaki et al, Lithium-aluminum contacts for organic light-emitting devices, Appl. Phys. Lett. Vol. 71 No. 9, September 1, 1997, pgs. 1151-1153

EXAMINER	DATE CONSIDERED
*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609: Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	